

UNITED STA DEPARTMENT OF COMMERCE Patent and Townsemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NUMBER FILING DATE FIRST NAMED APPLICANT	
	ATTY, DOCKET NO.
08/571,802 12/13/95 ISHII	D
	EXAMINER
HM11/0501	ART UNIT PAPER NUMBER
JANELLE D WAACK ARNOLD WHITE AND DURKEE	FAIR, M PAPER NUMBER /.3
P O BOX 4433	()
HOUSTON TX 77210-4433	DATE MAILED:
	05/01/98
This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS	
OFFICE ACTION SUMMARY	
XI Responsive to communication(s) filed on 4-16-98 (Paper 100.)	ie)
This action is FINAL .	
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Since this application is in condition for allowance except for formal matters, prosect accordance with the practice under Ex parte Quayle, 1935 D.C. 11; 453 O.G. 213.	· ·
A shortened statutory period for response to this action is set to expire	month(e) or thirty days
whichever is longer, from the mailing date of this action is set to expire	
the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be of	
.136(a). Disposition of Claims	
Claim(s) $3-6$, $10-13$, $24-45$ Of the above, claim(s)	is/are pending in the application.
Claim(s)	is/are allowed.
	is/are rejected.
Claim(s)	is/are objected to.
Claim(s)a	is/are objected to. are subject to restriction or election requirement.
Claim(s)a Application Papers	-
Claim(s)a Application Papers See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.	are subject to restriction or election requirement.
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Claim(s)	ected to by the Examiner. is approved disapproved.
Application Papers See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. The drawing(s) filed onis/are objee The proposed drawing correction, filed onis/are objee The specification is objected to by the Examiner. The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) All Some* None of the CERTIFIED copies of the priority documents	ected to by the Examiner. is approved disapproved.
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Detailed Action

Continued Prosecution Application

- 1. Receipt is acknowledged of the "conditional" request on 17 February 1998 for a Continued Prosecution Application (CPA) filed under 37 CFR 1.53(d) based on prior Application No. 08/571,802. Any "conditional" request for a CPA submitted as a separate paper is treated as an unconditional request for a CPA. Accordingly, the request for a CPA application is acceptable and a CPA has been established. An action on the CPA follows.
- 2. The preliminary amendments filed 22 December 1995 (paper No.
- 9) and filed 16 April 1998(paper No. 12) have been entered.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in the prior Office actions.

Claim Objections

4. Claims 3-6 and 10-13 are objected to because of the following informalities:

Claims 3-6 and 10-13 are dependent on cancelled claims. Appropriate correction is required.

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Information Disclosure Statement

The list of references labeled A1-A6 in the IDS filed 16

April 1998(paper No. 12) has been changed to D1-D6, respectively,

because the same labeling A1-A6 has been used previously in the

IDS filed 4 April 1996 (Paper No.4).

Claim Rejections - 35 USC § 112

5. Claims 3-6, 10-13, and 24-45 are rejected under 35
U.S.C. 112, first paragraph, because the specification, while
being enabling for a method of parenteral administration of IGFI, IGF-II, or a combination of both IGF-I and II for the
treatment of locus ceruleus noradrenergic neurons ablation by 6hydroxydopamine, does not reasonably provide the full scope of
enablement for parenteral administration of IGF-I or IGF-II, for
traumatic injury of the central nervous system (CNS) or spinal
cord and treating stroke. The specification does not enable any
person skilled in the art to which it pertains, or with which it
is most nearly connected, to make and use the invention
commensurate in scope with these claims for the reasons set forth
in the past office actions.

The terms "traumatic injury to the central nervous system" encompass a physical or mental injury to the central nervous system(see Stedman's Medical Dictionary(U)). Thus, claims 24-33 encompass any physical or mental injury to the CNS. However, as

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discussed in the past office actions, the specification does not enable the full scope of the claimed invention.

The terms "traumatic brain injury" encompass a physical or mental injury to the brain(see Stedman's Medical Dictionary(U)). Thus, claims 40-45 encompass any physical or mental injury to the brain. However, as discussed in the past office actions, the specification does not enable the full scope of the claimed invention.

The term "stroke" encompass both ischemic or hemorrhagic legsions. Thus, claims 34-45 encompass treament for all types of stroke. However, the specification fails to teach the treatment for the full scope of stroke diseases. The state of the art is silent with respect to using IGF to treat stroke (see Berkow et al.(V)). The treatments are related to using anticoagulants or treating atherosclerosis or hypertension, but not using IGF. Furthermore, the specification fails to make a nexus from the model of using IGF-I and II for the treatment of locus ceruleus noradrenergic neurons ablation by 6-hydroxydopamine to treating stroke. Without such guidance, the determination of IGF-I or -II effect on treating the full scope of stroke diseases requires empirical experimentation. Thus without further guidance, it would require undue experimentation to stroke by administering IGF- or IGF-II.

Applicant argues that the post-filing date evidnece clearly

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demonstrates the operativeness of the methods in a mammal as taught and claimed. However, applicant has failed to make a nexus from the model in the specification of using IGF-I and II for the treatment of locus ceruleus noradrenergic neurons ablation by 6-hydroxydopamine to treating stroke, traumatic injury to the CNS or the brain. Futhermore, the specification fails to teach the methods of adminstration of IGF which results in treating a model or the diseases of stroke or traumatic injury to the brain or CNS.

Claim Rejections - 35 USC § 102

6. Claims 3-6, 10-13, and 24-45 are rejected under 35
U.S.C. 102(e) as being anticipated by Lewis et al.(A1) for the reasons set forth in the past office actions (Paper Nos. 5 and 8) and set forth below.

The terms "traumatic injury to the central nervous system" or "traumatic brain injury" encompass a physical or mental injury to the central nervous system or brain. Lewis et al. teach the method of treating injury and stroke (column 4, lines 1-22).

Applicant argues that Lewis et al. does not teach IGF acting across the blood-brain barrier but rather teach away by characterizing the blood brain barrier as a problem. However, Lewis et al. teach the method of parenteral administration of IGF-I or IGF-II with specific dosage ranges of lug/kg/day to 1

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g/kg/day as well as ranges 0.01 mg/kg/day to 100mg/kg/day (column 10, lines 3-22). Furthermore, IGF I and II inherently cross the blood brain barrier. Thus, the prophetic contemplation of potential problems does not exclude the teachings of Lewis et al.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cephalon, Inc.(B2) is a cumulative reference with Lewis et al.(A1).

Stedman's Medical Dictionary (U) teaches that the definition of "trauma" is an injury, physical or mental.

Reinhadt et al.(A58) teach that IGF I and II cross the blood brain barrier inherently.

- 8. No claims are allowed.
- 9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS**ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened

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statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D. Pak whose telephone number is (703) 305-7038. The examiner can normally be reached on Monday-Friday from 9:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Walsh, can be reached on (703) 308-2957. The fax phone number for this Group is (703) 308-0294.

Official papers filed by fax should be directed to (703) 308-4242. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

MOP Michael D. Pak 1812 24 April 1998

Stephen Wald SUPERVISORY PATENT EXAMINER **GROUP 1800**

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